

**Supplement Table S1 Circadian rhythm characteristics of metabolic parameters under different conditions**

<b>Treatment</b>	<b>MESOR, M</b>	<b>Amplitude, A</b>	<b>Acrophase, <math>\Phi</math></b>	<b><i>P</i></b>
<b>RER</b>				
C	0.84300	0.0461141100	18.32986996	<0.00001
EX	0.84074	0.048224040	17.46479014	<0.00001
KD	0.73888	0.008679440	15.77843800	<0.00001
KE	0.73552	0.015580270	16.81227763	<0.00001
<b>Heat</b>				
C	0.40134	0.177672000	17.90809649	<0.00001
EX	0.40729	0.176086360	17.24004897	<0.00001
KD	0.44106	0.144394080	18.16325184	<0.00001
KE	0.50599	0.180584710	18.30474085	<0.00001
<b>Wheel</b>				
C	33.36142	46.59047321	17.4598812	<0.00001
EX	45.50124	68.66954571	16.5101714	<0.00001
KD	38.81002	51.65647158	17.3025468	<0.00001
KE	50.5348	66.28331142	17.7275396	<0.00001